CLAIMS

1. A device for implanting into a body vessel in the region of a vessel branching, comprising a radially expandable stent formed as a hollow cylindrical element and provided with an increase radial opening; and a balloon catheter on which said stent is pre-mounted for implanting in the vessel, said balloon catheter having a hollow chamber for passage of a guiding wire so that it exits in a center of said increased opening from said hollow chamber and said stent.

2. A device as defined in claim 1, wherein said balloon catheter is provided with another longitudinal chamber extending along a longitudinal axis of said catheter and formed so that a further guiding wire exits at a tip of said balloon catheter.

3. A device as defined in claim 2, wherein said stent is dilatable so that after a dilation of said stent, said balloon catheter is pullable along said guiding wires out of the vessel.

4. A device as defined in claim 2, wherein said further guiding wire is guided through said other hollow chamber out of said increased opening.

5. A device as defined in claim 4, wherein said balloon catheter has a balloon portion, said other hollow chamber for said further guiding wire guided out of said increased opening being formed by a pipe mounted on an outer surface of said balloon portion of said catheter.

6. A device as defined in claim 4, wherein said catheter has a balloon portion which is formed as a double-walled balloon, said other hollow chamber for guiding said further wire from said increase opening being formed as an intermediate chamber of said double-wall balloon.

7. A device as defined in claim 4, wherein said balloon catheter has a balloon portion, said other hollow chamber for guiding said further wire out of said increased opening being formed as an intermediate chamber between said balloon portion and a stretchable hose piece which is pulled onto said balloon portion.

8. A device as defined in claim 2, wherein said balloon catheter is composed of three coaxial hoses arranged so that two inwardly located hoses form said hollow chambers for receiving said guiding wires.

9. A device as defined in claim 1, wherein said stent is composed of a pipe and has a multi-cellular wall.

10. A device as defined in claim 1, wherein said stent is bent from a wire.

11. A device as defined in claim 1, wherein said stent is formed as a wire selected from the group consisting of structured wire, knitted wire and twisted wire.

12. A device as defined in claim 1, wherein said increased opening is arranged in a center of said stent.

13. A device as defined in claim 1, wherein said increased opening is arranged eccentrically on said stent.